

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|--------|--|---|------------------|
| 1 | BRS | 330 | ((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)) | USPAT | 2002/11/12 14:17 |
| 2 | BRS | 1989 | ((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2) | USPAT | 2002/11/12 13:18 |
| 3 | BRS | 49571 | phase same modulatz4 | USPAT | 2002/11/12 13:18 |
| 4 | BRS | 13758 | (piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1) | USPAT | 2002/11/13 11:35 |
| 5 | BRS | 2 | ((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 17:39 |
| 6 | BRS | 3 | ((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT; US-PGPUB ; EPO; JPO; DERWENT | 2002/11/12 17:18 |
| 7 | BRS | 14552 | mzi interferomet\$3 | USPAT | 2002/11/12 17:41 |
| 8 | BRS | 1989 | ((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2) | USPAT | 2002/11/12 14:20 |
| 9 | BRS | 49571 | phase same modulatz4 | USPAT | 2002/11/12 14:28 |
| 10 | BRS | 13758 | (piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1) | USPAT | 2002/11/12 18:05 |
| 11 | BRS | 51 | (mzi interferomet\$3) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulatz4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 16:43 |
| 12 | BRS | 344207 | (radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog) | USPAT | 2002/11/12 14:04 |
| 13 | BRS | 172 | ((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) | USPAT | 2002/11/12 14:05 |
| 14 | BRS | 11781 | ((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (phase same modulatz4) | USPAT | 2002/11/12 14:05 |
| 15 | BRS | 5 | ((mzi interferomet\$3) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulatz4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) | USPAT | 2002/11/12 14:07 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 1 | | | 0 |
| 2 | | | 0 |
| 3 | | | 0 |
| 4 | | | 0 |
| 5 | | | 0 |
| 6 | | | 0 |
| 7 | | | 0 |
| 8 | | | 0 |
| 9 | | | 0 |
| 10 | | | 0 |
| 11 | | | 0 |
| 12 | | | 0 |
| 13 | | | 0 |
| 14 | | | 0 |
| 15 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|--|---|------------------|
| 16 | BRS | 26 | ((mzi interferomet\$3) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulat\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (phase same modulat\$4)) | USPAT | 2002/11/12 14:11 |
| 17 | BRS | 330 | ((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)) | USPAT | 2002/11/12 17:56 |
| 18 | BRS | 2 | ((((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)))) | USPAT | 2002/11/12 14:21 |
| 19 | BRS | 4237 | ((phase modulat\$3) and (lithium near1 nioba\$3) linbo\$2) | USPAT | 2002/11/12 14:21 |
| 20 | BRS | 3 | ((((phase modulat\$3) and (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)))) | USPAT | 2002/11/12 14:21 |
| 21 | BRS | 8 | (phase same modulat\$4) and (((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)))) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 14:28 |
| 22 | BRS | 16 | ((((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric) (piezo adj1 electric) pzt\$1)) | USPAT; US-PGPUB ; EPO; JPO; DERWENT | 2002/11/12 15:03 |
| 23 | BRS | 115 | ((((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) interferometer (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric) (piezo adj1 electric) pzt\$1)) | USPAT; US-PGPUB ; EPO; JPO; DERWENT | 2002/11/12 15:05 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 16 | | | 0 |
| 17 | | | 0 |
| 18 | | | 0 |
| 19 | | | 0 |
| 20 | | | 0 |
| 21 | | | 0 |
| 22 | | | 0 |
| 23 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|---|-------|------------------|
| 24 | BRS | 26 | (((machzend\$3 adj1 modul\$3) (mach adj1 zend\$3 adj1 modul\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) interferometer (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modul\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric) (piezo adj1 electric) pzt\$1))) and ((piezo adj1 electric adj1 transdu\$5) pzt) | USPAT | 2002/11/12 18:27 |
| 25 | BRS | 14 | ((((machzend\$3 adj1 modul\$3) (mach adj1 zend\$3 adj1 modul\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) interferometer (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modul\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric) (piezo adj1 electric) pzt\$1))) and ((piezo adj1 electric adj1 transdu\$5) pzt)) not (((phase same modul\$4) and (((machzend\$3 adj1 modul\$3) (mach adj1 zend\$3 adj1 modul\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) "223" (((phase modul\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((machzend\$3 adj1 modul\$3) (mach adj1 zend\$3 adj1 modul\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) ((mzi interferomet\$3) and (((phase modul\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modul\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) | USPAT | 2002/11/12 15:14 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 24 | | | 0 |
| 25 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|---|-------|------------------|
| 26 | BRS | 0 | ((((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) interferometer (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric) (piezo adj1 electric) pzt\$1))) and ((piezo adj1 electric adj1 transdu\$5) pzt)) not (((phase same modulat\$4) and ((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) "223" (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)))) (((mzi interferomet\$3) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulat\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog))) | USPAT | 2002/11/12 15:15 |
| 27 | BRS | 0 | ((mzi interferomet\$3) and ((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulat\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and ((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) | USPAT | 2002/11/12 16:41 |

| | Comments | Error Definition | Errors |
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| 26 | | | 0 |
| 27 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|---|-------|------------------|
| 28 | BRS | 10 | ((mzi interferomet\$3) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulat\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) not (((machzend\$3 adj1 modulat\$3) (mach adj1 zend\$3 adj1 modulat\$3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) ((mzi interferomet\$3) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulat\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)))) (((mzi interferomet\$3) and (((phase modulat\$3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulat\$4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (phase same modulat\$4))) "2124" | USPAT | 2002/11/12 17:20 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 28 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|---|-------|------------------|
| 29 | BRS | 64 | (((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) (((mzi interferomet\$3) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulatz4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)))) (((mzi interferomet\$3) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulatz4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (phase same modulatz4))) (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 | USPAT | 2002/11/12 17:49 |
| 30 | BRS | 2 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3)))) | USPAT | 2002/11/12 17:41 |
| 31 | BRS | 6 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (mzi interferomet\$3) | USPAT | 2002/11/12 17:41 |
| 32 | BRS | 6 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) | USPAT | 2002/11/12 17:42 |
| 33 | BRS | 6 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2))) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 17:43 |
| 34 | BRS | 3 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2))) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) | USPAT | 2002/11/12 17:46 |

| | Comments | Error Definition | Errors |
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| 29 | | | 0 |
| 30 | | | 0 |
| 31 | | | 0 |
| 32 | | | 0 |
| 33 | | | 0 |
| 34 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|---|-------|------------------|
| 35 | BRS | 2 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and ((fiber waveguid\$4) same (amplif\$5 erbium\$6))) | USPAT | 2002/11/12 17:48 |
| 36 | BRS | 1 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) (((mzi interferomet\$3) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulatz4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)))) (((mzi interferomet\$3) and (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and (phase same modulatz4) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and (((radiofrequenc\$3 (radio adj1 frequen\$4) rf (micro adj1 wave\$2) microwave\$2 analog)) same (phase same modulatz4))) (((phase modulatz3) same (lithium near1 nioba\$3) linbo\$2)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) and (((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 | USPAT | 2002/11/12 17:56 |
| 37 | BRS | 12 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (polariz\$5 near2 maintain\$4 near3 (coupler\$4))) | USPAT | 2002/11/12 18:17 |
| 38 | BRS | 2 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (polariz\$5 near2 maintain\$4 near3 (coupler\$4))) and (photodiode\$3 photo adj1 (diode\$1 detect\$4) detect\$4)) and ((phase adj1 lock\$3) phaselock\$5) | USPAT | 2002/11/12 18:20 |

| | Comments | Error Definition | Errors |
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| 35 | | | 0 |
| 36 | | | 0 |
| 37 | | | 0 |
| 38 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|-------|---|-------|------------------|
| 39 | BRS | 2 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (polariz\$5 near2 maintain\$4 near3 (coupler\$4))) and (photodiode\$3 photo adj1 (diode\$1 detect\$4) detect\$4)) and ((phase adj1 lock\$3) phaselock\$5)) and (nd\$5 \$4yag) | USPAT | 2002/11/12 18:47 |
| 40 | BRS | 0 | ((((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (polariz\$5 near2 maintain\$4 near3 (coupler\$4))) and (photodiode\$3 photo adj1 (diode\$1 detect\$4) detect\$4)) and ((phase adj1 lock\$3) phaselock\$5)) and (nd\$5 \$4yag)) and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 18:05 |
| 41 | BRS | 29011 | ((phase adj1 lock\$3) phaselock\$5) | USPAT | 2002/11/12 18:21 |
| 42 | BRS | 7429 | ((piezo adj1 electric adj1 transdu\$5) pzt) | USPAT | 2002/11/12 18:28 |
| 43 | BRS | 2 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and ((phase adj1 lock\$3) phaselock\$5)) and (((phase adj1 lock\$3) phaselock\$5)) same (((piezo adj1 electric adj1 transdu\$5) pzt))) | USPAT | 2002/11/12 18:28 |
| 44 | BRS | 22 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and ((phase adj1 lock\$3) phaselock\$5) | USPAT | 2002/11/12 18:33 |
| 45 | BRS | 10 | (((((machzend\$3 adj1 modulatz3) (mach adj1 zend\$3 adj1 modulatz3) mzm mzi (machzend\$3 adj1 interferomet\$3) (mach adj1 zend\$3 adj1 interferomet\$3))) and (polariz\$5 near2 maintain\$4 near3 (coupler\$4))) and (photodiode\$3 photo adj1 (diode\$1 detect\$4) detect\$4) | USPAT | 2002/11/12 18:34 |
| 46 | BRS | 26 | ((((phase adj1 lock\$3) phaselock\$5)) same (((piezo adj1 electric adj1 transdu\$5) pzt))) | USPAT | 2002/11/13 16:24 |
| 47 | BRS | 1 | 5193128.pn. | USPAT | 2002/11/12 18:48 |
| 48 | BRS | 1 | 5193128.pn. and fiber\$5 | USPAT | 2002/11/12 18:52 |
| 49 | BRS | 0 | 5193128.pn. and polariz\$6 | USPAT | 2002/11/12 18:57 |
| 50 | BRS | 1 | 6411756.pn. | USPAT | 2002/11/12 18:58 |
| 51 | BRS | 1 | 6411756.pn. and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 19:02 |
| 52 | BRS | 1 | 5675648.pn. and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1)) | USPAT | 2002/11/12 19:08 |
| 53 | BRS | 1 | (5675648.pn. and ((piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1))) and ((lithium near1 nioba\$3) linbo\$2) | USPAT | 2002/11/12 19:08 |
| 54 | BRS | 1 | 5675648.pn. | USPAT | 2002/11/13 17:13 |

| | Co mm en ts | Error Defini tion | Er ro rs |
|----|----------------------|-------------------------|----------------|
| 39 | | | 0 |
| 40 | | | 0 |
| 41 | | | 0 |
| 42 | | | 0 |
| 43 | | | 0 |
| 44 | | | 0 |
| 45 | | | 0 |
| 46 | | | 0 |
| 47 | | | 0 |
| 48 | | | 0 |
| 49 | | | 0 |
| 50 | | | 0 |
| 51 | | | 0 |
| 52 | | | 0 |
| 53 | | | 0 |
| 54 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|----|------|------|--|--------------------|------------------|
| 55 | BRS | 1 | 5675648.pn. and (piezoelectrictransduc\$3 (piezoelectric adj1 transduc\$3) (piezo adj1 electric adj1 transduc\$3) pzt\$1) | USPAT | 2002/11/13 11:54 |
| 56 | BRS | 1 | 5675648.pn. and (mach same modulats\$5) | USPAT | 2002/11/13 12:37 |
| 57 | BRS | 1 | 5675648.pn. and (maintain\$4) | USPAT | 2002/11/13 12:37 |
| 58 | BRS | 1 | 5675648.pn. and (maintain\$4 same polariz\$6) | USPAT | 2002/11/13 13:33 |
| 59 | BRS | 1 | 5675648.pn. and (modulats\$5) | USPAT | 2002/11/13 13:39 |
| 60 | BRS | 1 | 5675648.pn. and (modulats\$5 same (laser\$5 \$5laser \$6diode)) | USPAT | 2002/11/13 15:15 |
| 61 | BRS | 1 | 5675648.pn. and (radio\$7 \$7radio \$6wave frequenc\$3 signal\$1 rf transmit\$4) | USPAT | 2002/11/13 15:22 |
| 62 | BRS | 1 | 5675648.pn. and ((radio\$7 \$7radio \$6wave frequenc\$3 signal\$1 rf transmit\$4) same modulats\$5) | USPAT | 2002/11/13 15:24 |
| 63 | BRS | 6 | ("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn. | USPAT | 2002/11/13 15:39 |
| 64 | BRS | 1 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (radio\$7 rf) | USPAT | 2002/11/13 16:21 |
| 65 | BRS | 0 | ((("6411756" "5751248" "5675648" "5543805" "5193128" "4486657").pn.) and (erbium\$6) | USPAT | 2002/11/13 16:25 |
| 66 | BRS | 26 | ((((phase adj1 lock\$3) phaselock\$5)) same ((piezo adj1 electric adj1 transdu\$5) pzt)) | USPAT | 2002/11/13 16:24 |
| 67 | BRS | 1 | 5272513.pn. | USPAT | 2002/11/13 16:24 |
| 68 | BRS | 3 | ((((phase adj1 lock\$3) phaselock\$5)) same ((piezo adj1 electric adj1 transdu\$5) pzt))) and (erbium\$6) | USPAT | 2002/11/13 16:32 |
| 69 | BRS | 0 | ((((phase adj1 lock\$3) phaselock\$5)) same ((piezo adj1 electric adj1 transdu\$5) pzt))) and (erbium\$6 same MZI) | USPAT | 2002/11/13 16:33 |
| 70 | BRS | 0 | ((((phase adj1 lock\$3) phaselock\$5)) same ((piezo adj1 electric adj1 transdu\$5) pzt))) and (erbium\$6 same interferom\$5) | USPAT | 2002/11/13 16:33 |
| 71 | BRS | 2 | 385/\$.ccls. and (erbium\$6 same MZI) | USPAT | 2002/11/13 16:35 |
| 72 | BRS | 0 | 385/\$.ccls. and (erbium\$6 same interfereorm\$5) | USPAT | 2002/11/13 16:35 |
| 73 | BRS | 0 | 385/\$.ccls. and (erbium\$6 same interferorm\$5) | USPAT | 2002/11/13 16:35 |
| 74 | BRS | 41 | 385/\$.ccls. and (erbium\$6 same interferom\$5) | USPAT | 2002/11/13 16:45 |
| 75 | BRS | 3 | 385/\$.ccls. and (\$5yag near3 cavity near2 laser\$1 near5 pump\$3) | USPAT | 2002/11/13 16:52 |
| 76 | BRS | 3 | (385/\$.ccls. and (\$5yag near3 cavity near2 laser\$1 near5 pump\$3)) and interferom\$5 | USPAT | 2002/11/13 16:48 |
| 77 | BRS | 0 | ((nd adj2 yag) near3 cavity near2 laser\$1 near9 pump\$3) | USPAT | 2002/11/13 16:50 |
| 78 | BRS | 1 | ((nd adj2 yag) near3 cavity near7 laser\$1 near9 pump\$7) | USPAT | 2002/11/13 16:50 |
| 79 | BRS | 6 | 385/\$.ccls. and ((nd aj1 yag) near3 cavity) | USPAT | 2002/11/13 16:53 |
| 80 | BRS | 4 | 385/\$.ccls. and ((nd aj1 yag) near3 cavity near7 pump\$4) | USPAT | 2002/11/13 16:53 |
| 81 | BRS | 0 | 5675648.pn. and (fiber\$2 same amplif\$7) | USPAT | 2002/11/13 17:14 |
| 82 | BRS | 1 | 5675648.pn. and (piezo\$8 pzt) | USPAT; US-PGPUB | 2003/05/12 18:00 |
| 83 | BRS | 1 | 5675648.pn. | USPAT; US-PGPUB | 2004/02/12 18:57 |

| | Comments | Error Definition | Errors |
|----|----------|------------------|--------|
| 55 | | | 0 |
| 56 | | | 0 |
| 57 | | | 0 |
| 58 | | | 0 |
| 59 | | | 0 |
| 60 | | | 0 |
| 61 | | | 0 |
| 62 | | | 0 |
| 63 | | | 0 |
| 64 | | | 0 |
| 65 | | | 0 |
| 66 | | | 0 |
| 67 | | | 0 |
| 68 | | | 0 |
| 69 | | | 0 |
| 70 | | | 0 |
| 71 | | | 0 |
| 72 | | | 0 |
| 73 | | | 0 |
| 74 | | | 0 |
| 75 | | | 0 |
| 76 | | | 0 |
| 77 | | | 0 |
| 78 | | | 0 |
| 79 | | | 0 |
| 80 | | | 0 |
| 81 | | | 0 |
| 82 | | | 0 |
| 83 | | | 0 |

| | Type | Hits | Search Text | DBs | Time Stamp |
|-----|------|-------|---|--------------------|------------------|
| 84 | BRS | 0 | '09845111' | USPAT; US-PGPUB | 2004/02/12 18:58 |
| 85 | BRS | 1 | '09/845111' | USPAT; US-PGPUB | 2004/02/12 18:58 |
| 86 | BRS | 1 | '09/845111' and amplif\$6 | USPAT; US-PGPUB | 2004/02/13 12:01 |
| 87 | BRS | 147 | (edfa near7 (pzt modulator) near5 coupler) same interferometer mzi | USPAT | 2004/02/13 12:04 |
| 88 | BRS | 28488 | 385/\$.ccls. | USPAT; US-PGPUB | 2004/02/13 12:04 |
| 89 | BRS | 103 | ((edfa near7 (pzt modulator) near5 coupler) same interferometer mzi) and 385/\$.ccls. | USPAT; US-PGPUB | 2004/02/13 12:04 |
| 90 | BRS | 0 | (edfa near3 between near5 (pzt modulator) near5 coupler) same (interferometer mzi) | USPAT | 2004/02/13 12:05 |
| 91 | BRS | 0 | (edfa near3 insert\$4 near5 (pzt modulator) near5 coupler) same (interferometer mzi) | USPAT | 2004/02/13 12:05 |
| 92 | BRS | 0 | (edfa near5 (pzt modulator) near5 coupler) same (interferometer mzi) | USPAT | 2004/02/13 12:06 |
| 93 | BRS | 0 | (edfa near7 (pzt modulator) near5 coupler) same (interferometer mzi) | USPAT | 2004/02/13 12:06 |
| 94 | BRS | 0 | (edfa near7 (pzt modulator) near5 second near1 coupler) same (interferometer mzi) | USPAT | 2004/02/13 12:07 |
| 95 | BRS | 0 | (edfa near7 (pzt modulator) near5 second near1 coupler) and (interferometer mzi) | USPAT | 2004/02/13 12:07 |
| 96 | BRS | 1 | (edfa near7 (pzt modulator) near5 coupler) and (interferometer mzi) | USPAT | 2004/02/13 12:11 |
| 97 | BRS | 1 | (edfa near7 (pzt modulat\$5) near9 coupler\$1) and (interferometer mzi) | USPAT | 2004/02/13 12:12 |
| 98 | BRS | 8 | (amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) and (interferometer mzi) and edfa | USPAT | 2004/02/18 11:34 |
| 99 | BRS | 51 | (amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) and (interferometer mzi) | USPAT | 2004/02/18 11:34 |
| 100 | BRS | 0 | ((amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) same (interferometer mzi)) and coupl\$4 near3 ((polariz\$5 near1 maintain\$4) pm) | USPAT | 2004/02/18 11:36 |
| 101 | BRS | 3 | ((amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) and (interferometer mzi)) and coupl\$4 near3 ((polariz\$5 near1 maintain\$4) pm) | USPAT | 2004/02/18 11:36 |
| 102 | BRS | 14 | (amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) same (interferometer mzi) | USPAT | 2004/02/18 12:45 |
| 103 | BRS | 37 | ((amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) and (interferometer mzi)) not ((amplif\$5 near7 (pzt modulat\$5) near9 coupler\$1) same (interferometer mzi)) | USPAT; US-PGPUB | 2004/02/18 12:45 |

| | Comments | Error Definition | Errors |
|-----|----------|------------------|--------|
| 84 | | | 0 |
| 85 | | | 0 |
| 86 | | | 0 |
| 87 | | | 0 |
| 88 | | | 0 |
| 89 | | | 0 |
| 90 | | | 0 |
| 91 | | | 0 |
| 92 | | | 0 |
| 93 | | | 0 |
| 94 | | | 0 |
| 95 | | | 0 |
| 96 | | | 0 |
| 97 | | | 0 |
| 98 | | | 0 |
| 99 | | | 0 |
| 100 | | | 0 |
| 101 | | | 0 |
| 102 | | | 0 |
| 103 | | | 0 |